

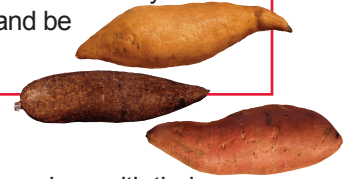
Harvest of the Month

Growing Healthy Students



Health and Learning Success Go Hand-in-Hand

Studies show that good nutrition and regular physical activity can help students focus on school work and maintain healthy immune systems, helping them to fight off the flu and colds. **Harvest of the Month** connects with core curricula to give students the chance to explore, taste and learn about the importance of eating fruits and vegetables. It links the classroom, cafeteria, home and community to motivate and support students to make healthy food choices and be physically active every day.



Taste Testing with Sweet Potatoes

Taste testing activities allow students to experience the featured produce with their senses, engaging them in the learning process and creating increased interest, awareness and support for increasing consumption of fruits and vegetables.

Tools:

- Raw sweet potatoes, whole and quartered; canned sweet potatoes; one variety per every four students
- Map of the United States
- Pencil and paper

Activity:

- Taste the raw sweet potato, noting the texture, smell, color, taste and consistency
- Locate on the map where dry flesh sweet potatoes are grown
- Repeat the exercise using the canned sweet potatoes

Classroom Discussion:

- Compare the regions where sweet potatoes are grown. Discuss what affects the color and texture of the flesh (e.g., altitude, temperature, climate, weather).
- What is the difference in taste between the raw and canned sweet potatoes? How do they compare in taste to other yellow/orange fruits and vegetables?

For more ideas, reference:

School Foodservice Guide – Successful Implementation Models for Increased Fruit and Vegetable Consumption, Produce for Better Health Foundation, 2005, pp. 39–42.

Cooking in Class: Sweet Potato Dip

Ingredients:

Makes 30 tastes at ¼ cup each

- 3 cups boiled or canned sweet potatoes
- 3 tablespoons cinnamon
- 3 teaspoons nutmeg
- 1½ cups nonfat plain yogurt
- 3 cups unsalted crackers or flat bread

Mix sweet potatoes and yogurt together in a mixing bowl. Add spices. Serve with crackers or bread.

Source: *Pasadena Unified School District Nutrition Network*

For more ideas, reference:

Kids Cook Farm-Fresh Food, CDE, 2002.

Reasons to Eat Sweet Potatoes

One serving provides:

- An excellent source of beta carotene — almost four times the recommended Daily Value. Beta carotene is a type of Vitamin A that helps the body fight sickness and disease.
- A good source of fiber, Vitamin B6 and potassium, all of which aid in a variety of health needs from metabolism to energy and cognitive performance.
- A source of Vitamin C and several essential minerals, including calcium and magnesium.



Nutrition Facts

Serving Size: 1 cup, cubes (133g)

Calories 114

Calories from Fat 1

% Daily Value

Total Fat 0g 0%

Saturated Fat 0g 0%

Trans Fat 0g

Cholesterol 0mg 0%

Sodium 73mg 3%

Total Carbohydrate 27g 9%

Dietary Fiber 4g 16%

Sugars 6g

Protein 2g

Vitamin A 377% Vitamin C 5% Calcium 4% Iron 5%

Source: www.nutritiondata.com

SWEET POTATOES

Sweet Potatoes vs. Yams — What's the Difference?

When it comes to sweet potatoes and yams, it can be a bit confusing. Here are a few things to remember:



- What the general public often calls “yams” are actually sweet potatoes.
- To avoid confusion (since the terms are generally used interchangeably), the USDA requires that the label “yam” always be accompanied by “sweet potato” — but there is a big difference. See the chart below to compare the characteristics of yams and sweet potatoes.

	Sweet Potatoes	Yams
What is it?	Root	Tuber
Skin	Smooth Color ranges depending on variety, from pale yellow to dark purple to bright orange	Scaly and rough Color ranges from off-white to dark brown
Flesh	Moist consistency and sweet flavor Colors range from light yellow to pink, red or orange	Dry and starchy Color ranges from off-white to yellow to pink to purple
Nutrition	Very high in beta-carotene and other nutrients	Very low in beta carotene and other nutrients

Cafeteria Connections

- Encourage students to take part in the *Students for Sweet Potatoes* activity by holding a Place Mat Contest between classrooms.
- Use categories to help create interest, such as Most Creative, Most Festive and Most Informational.
- Ask staff and older students to help judge the entries. Have student judges create a cafeteria bulletin board to display the place mats for a week.
- Consider awarding prizes in each category by grade level. Students can then donate the place mats to senior citizen centers or nursing homes for the holiday meals.

For more ideas, reference:

Fruits and Vegetables Galore, USDA, 2004.

Students for Sweet Potatoes

Suggest that students design special sweet potato place mats with designs and games to distribute to nursing homes and friends for holiday meals. Students may also want to include sweet potato nutrition facts, history and recipes on the place mats.

Physical Activity Corner

Studies support a connection between regular physical activity and increased levels of alertness, memory function and learning. Children should engage in at least one hour of physical activity every day to stay healthy and fit, both mentally and physically. The following are some examples.

Objective: Develop memory, visual learning, locomotor skills

Add-A-Move Memory Game:

- Stand in front of the room and do a specific movement (e.g., hop up and down once)
- Ask students to mimic the movement
- Repeat using a different movement, for up to 10 times
- Students act out the movements in same order as presented

Go Farther:

- Ask students to do the movements in reverse

Bring It Home:

- Encourage children to suggest playing *Add-A-Move Memory Game* with family members and explain how eating fruits and vegetables and doing physical activity can affect memory.

Mathematical Jumping Jacks:

- Call out a math problem. If the answer is less than 20, ask students to give their answer in jumping jacks.

Q&A Catch:

- Play a game of catch where a student catches the ball, calls out the answer to a question asked by the teacher, and quickly tosses the ball to someone else for the next answer.

For more ideas, visit:

www.cdc.gov/HealthyYouth/physicalactivity



Literature Links

- **Elementary:** *Buried Treasures: Roots and Tubers* by Mary Hughes, *Farmer's Market* by Marcie Rendon and Cheryl Walsh Bellville and *Where Does it Come From?* by Amy Cage and Pamela Emery.
- **Secondary:** *What Are You Eating?* by Pamela Emery and Karen Traiger and *Starting All Over Again (The Cycle's of Nature)* by Louis Bechely and Karen Traiger.
- **High School:** *An Ag Interview* by Pamela Emery.

Veggie Facts

The Center for Science in the Public Interest (CSPI) ranks the sweet potato as the No.1 most nutritious vegetable.

The sweet potato is not a potato or even a distant cousin. Potatoes are tubers while sweet potatoes are roots.

Approximately 4.2 pounds of sweet potatoes per capita are consumed annually in the United States.

It would take 23 cups of broccoli to provide the same amount of Vitamin A as in one medium sweet potato.

Sweet potatoes are more nutritious when cooked with the skin.

A Slice of Sweet Potato History

Sweet potatoes are believed to have been domesticated in Central and South America nearly 5,000 years ago. They then spread to Mexico, the Caribbean, the West Indies and parts of North America.

When Christopher Columbus landed on America's shores in 1492, the Native Americans were growing sweet potatoes. Columbus and his men loved the tasty sweet potatoes so much that they brought them back to Europe to grow their own, where they continued to increase in popularity.

The Spanish began cultivating sweet potatoes immediately. Soon they were profitably exporting sweet potatoes to England where they were included in spice pies to be devoured at the court of Henry VIII.

The French, not to be outdone, planted them at the request of Louis XV. After his death, the popularity of the sweet potato staggered for 30 years. Finally, the Portuguese carried sweet potatoes to Asia and Africa where they have become an important dietary staple. In the United States, the sweet potato was a main source of nourishment for early homesteaders and for soldiers during the American Revolution and Civil War. The Pilgrims and Native Americans even ate sweet potatoes at the first Thanksgiving feast.

Adventurous Activities

History Exploration:

Ask students to research and write a report on the many medical and industrial uses that sweet potatoes have provided throughout history.

Problem Solving:

Use the nutrient content of sweet potatoes in math problems.

- **Example:** In order to get the same amount of Vitamin A that is contained in one medium sweet potato, a person would have to consume 23 cups of broccoli. How many sweet potatoes would it take to fulfill the same requirements as 100 cups of broccoli? How much Vitamin A, Vitamin C and fiber would there be?

For more ideas, reference:

www.nal.usda.gov/kids
www.agclassroom.org

School Garden: Grow a Sweet Potato Houseplant

Materials: Sweet potato, toothpicks, quart-size jar or glass with wide mouth, bottled water (non-chlorinated).

Methods: Wash sweet potato thoroughly. Insert toothpicks into the sides of the sweet potato about one-third of the way down. Place the sweet potato into the jar. Fill the jar with water.

Results: In about 10 to 15 days, the sweet potato will begin to bud. For the next three to six months, vines will grow from the sweet potato. Train the vines to climb up or around classroom objects.

Keeping It Green: Always keep the jar filled with non-chlorinated water. Keep the sweet potato plant in moderate to full sunlight at room temperature or above 65 F.

For more ideas, visit:

www.ncsweetpotatoes.com

Eat Your Colors

Fruits and vegetables come in a rainbow of colors. Eat a variety of colorful fruits and vegetables every day — red, yellow/orange, white, green and blue/purple. Sweet potatoes are in the yellow/orange color group.

- Yellow/orange fruits and vegetables help maintain a healthy heart, vision health and a healthy immune system. They may also lower the risk of some cancers. Examples include sweet potatoes, sweet corn, butternut squash, yellow peppers, pumpkins, oranges, tangerines, persimmons and yellow figs.

For more information, visit:

www.harvestofthemonth.com

What's in a Name?

Pronunciation: swēt pə-tā'tō

Spanish name: camote

Family: Convolvulaceae

Genus: *Ipomoea*

Species: *I. batatas*



The sweet potato is a perennial plant of the genus *Ipomoea*, in the family Convolvulaceae (morning glory family). The sweet potato's tuberous roots are an important vegetable. Its botanical name, *Ipomoea batatas*, was derived from the Native Americans of Louisiana who were growing them as early as 1540 and referred to the roots as *batatas*.

Although the sweet potato shares its name, it is only distantly related to the potato (*Solanum tuberosum*). The sweet potato is commonly confused with the yam, which also belongs to another family. (For comparison information on sweet potatoes and yams, refer to the chart on page 2.) The confusion began over 100 years ago when farmers and stores marketed sweet potatoes as "yams" and the name stuck. Despite recent branding regulations by the USDA, sweet potatoes are still widely known as "yams."

SWEET POTATO ACTIVITIES

Eat the Rainbow!

Fruits and vegetables come in a rainbow of colors. Eat a variety of colorful fruits and vegetables every day — red, yellow/orange, white, green and blue/purple. Sweet potatoes are in the yellow/orange color group.

- Yellow/orange fruits and vegetables help maintain a healthy heart, vision and immune system. Examples include sweet potatoes, butternut squash, sweet corn, yellow and orange peppers, carrots, oranges, grapefruit, tangerines, lemons, yellow apples, apricots and persimmons.

What is a Serving?

A serving of sweet potatoes is one cup cubed sweet potatoes. This is about two cupped handfuls.

Fill in the Blank

Complete the sentences using the following words:

roots nutritious Vitamin A yams beta carotene

1. Sweet potatoes are very high in _____.
2. Sweet potatoes are often mistaken for _____.
3. Sweet potatoes are _____.
4. Sweet potatoes are orange because they contain _____.
5. Sweet potatoes are the most _____ of all vegetables.

Answers: 1. Vitamin A, 2. yams, 3. roots, 4. beta carotene, 5. nutritious



Fiber Word Search

Find the high fiber foods below in the puzzle. Look up, down and sideways.

O B G U M T W R B S X O R
 A P M Z V D H M S E N X A
 T O C A R R O T S U R H E
 M A W P P R L L I F N S P
 E M I P K O E K N Y E C H
 A S E L H C W G R T P O C
 L A M E T C H R C J O N O
 R L N Z P O E C H B T B D
 P M P M M B A E D P A R E
 X O P T W I T C P L T O I
 J N Q A A B B R K I O C F
 S O R T U B R O C C O L I
 C T O L E M E M O F D P Q
 S Z I L H A A S K L M N E
 L Z B A K E D B E A N S Y

- APPLE
- BAKED BEANS
- BROCCOLI
- CARROTS
- OATMEAL
- PEAR
- POTATO
- STRAWBERRY
- WHOLE WHEAT

Nutrition Facts

Serving Size: 1 cup, cubes (133g)
 Calories 114

Calories from Fat 1

	% Daily Value
Total Fat 0g	0%
Saturated Fat 0g	0%
Trans Fat 0g	
Cholesterol 0mg	0%
Sodium 73mg	3%
Total Carbohydrate 27g	9%
Dietary Fiber 4g	16%
Sugars 6g	
Protein 2g	
Vitamin A 377%	Calcium 4%
Vitamin C 5%	Iron 5%

Source: www.nutritiondata.com

Arizona Nutrition Network



This material was adapted from the California Nutrition Network for Healthy Active Families. This material was funded by USDA's Food Stamp Program. The Food Stamp Program provides nutrition assistance to people with low income. It can help you buy nutritious foods for a better diet. To find out more, contact 1-800-352-8401. This institution is an equal opportunity provider and employer.